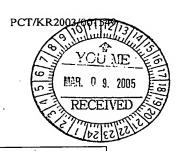


INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)



| Applicant's or agent's file reference OPP021213KR | FOR FURTHER ACTION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416) | | ofInternationalPreliminary CT/IPEA/416) | | | |
|---|--|------------------------------------|--|--|--|--|
| International application No. | International filing date(day/mor | th/year) Priority date (| day/month/year) | | | |
| PCT/KR2003/001549 | 31 JULY 2003 (31.07.200 | 02 AUGUST | 2002 (02.08.2002) | | | |
| PCT/KR2003/001549 31 JULY 2003 (31.07.2003) O2 AUGUST 2002 (02.08.2002) International Patent Classification (IPC) or national classification and IPC IPC7 G09G 3/36, G02F 1/133 Applicant SAMSUNG ELECTRONICS CO., LTD. et al 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of4 | | | | | | |
| 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total ofsheets. | | | | | | |
| 3. This report contains indications relating to the following items: | | | | | | |
| Basis of the report II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application | | | | | | |
| Date of submission of the demand | Date | of completion of this report | | | | |
| 25 FEBRUARY 200 | | 07 MARCH 2005 (07.03. | 2005) | | | |
| Name and mailing address of the IPE. Korean Intellectual Prop 920 Dunsan-dong, Seo-g Republic of Korea | erty Office | norized officer JEONG, Jae Heon | (対似的) | | | |
| Facsimile No. 82-42-472-7140 | Tele | phone No. 82-42-481-5672 | | | | |

Form PCT/IPEA/409 (cover sheet) (July 1998)



International aplication No.
PCI/KR2003/001549

| 1. | Basis | of the report | | | | | |
|----|---|--|---------------------------------|--|--|--|--|
| | | regard to the elements of the international application:* | | | | | |
| | | the international application as originally filed | | | | | |
| | | the description: | as originally filed | | | | |
| | | pagespages | , filed with the demand | | | | |
| | | pages, filed with the letter of | | | | | |
| | | the claims: | , as originally filed | | | | |
| | | pages, as amended (together with any | statment) under Article 19 | | | | |
| | | pages | | | | | |
| | _ | pages, filed with the letter of | | | | | |
| | | the drawings: pages | _ , as originally filed | | | | |
| | | nages | , filed with the demand | | | | |
| | | pages filed with the letter of | | | | | |
| | Ш | the sequence listing part of the description: pages | , as originally filed | | | | |
| | | nares | , filed with the demand | | | | |
| | | pages, filed with the letter of | | | | | |
| 2. | the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following languagewhich is | | | | | | |
| | | the language of a translation furnished for the purposes of international search (under Rule 23 | .1(b)). | | | | |
| | | the language of publication of the international application (under Rule 48.3(b)). | inationCunder Pules 55.2 and/ | | | | |
| | | the language of the translation furnished for the purposes of international preliminary exami or 55.3). | mation Cules 23.2 Bittle | | | | |
| 3. | With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: | | | | | | |
| | | contained inthe international application in written form. | | | | | |
| | | filed together with the international application in computer readable form. | | | | | |
| | | furnished subsequently to this Authority in written form. | | | | | |
| | | furnished subsequently to this Authority in computer readable form | wond the disclosure in the | | | | |
| | | The statement that the subsequently furnished written sequence listing does not go be international applicationas as filed has been furinshed. | | | | | |
| | | The statement that the information recorded in computer readable form is identical to the been furnished. | written Sequence fishing has | | | | |
| 4. | | The amendments have resulted in the cancellation of: | | | | | |
| | | the description, pages | | | | | |
| | | the claims, Nos. | | | | | |
| _ | | the drawings, sheets | | | | | |
| 5. | | This report has been established as if (some of) the amendments had not been made, sing go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).** | ce they have been considered to | | | | |
| | * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amenatments (Rules 70.16 and 70.17). | | | | | | |
| • | ** Any | ** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report. | | | | | |

Form PCT/IPEA/409 (Box I)(July 1998)



International aplication No.

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| Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient) | | | | |
|--|--|--|--|--|
| Continuation of: | | | | |
| The following documents are referred to this preliminary examination report: | | | | |
| D1 = US 2002/0084965 A1 | | | | |
| D2 = US 2002/0063671 A1 | | | | |
| D3 = JP 2001-343922 A | | | | |
| ☐ Novelty and Inventive step | | | | |
| This application relates to the problem that there is a luminance difference between the upper half and lower half which is easily recognized along the disconnection line in the conventional dual scan LCD. The solution of claims $1, 3-8, 10, 11$ is provided with a LCD which has 3 gate line blocks, wherein the 2nd gate line block has the disconnections of data lines characterized by the fact that the said disconnections are distributed randomly. | | | | |
| D2 indicates the problem that the divided points in the column recognized when the column address conductors are divided column address conductors in case that a panel is divided by And D2 also teaches that a panel is divided by 3(1 ~ K, K+1 breaks of the column address conductors of the area(K+ arranged. | around the middle of the 2(1 ~ K, K+1 ~ M). Also ~ K+x, K+x ~ M) and the | | | |
| Therefore, the subject-matter of claims 1, $3-8$, 10, 11 is nor involve an inventive step. | not considered to be new, | | | |
| ☐ Industrial applicability The subject-matter of all the claims meets the criteria of PCT industrially applicable. | Article 33(4) because it is | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



International aplication No.
PCT/KR2003/001549

| v. | V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | | |
|----|--|--------|------------------|--------------|--|--|
| 1. | Statement | | | | | |
| | Novelty (N) | Claims | 2, 9, 12 - 15 | YES | | |
| | | Claims | 1, 3 - 8, 10, 11 | . <u>N</u> O | | |
| | Inventive step (IS) | Claims | 2, 9, 12 - 15 | YES | | |
| | | Claims | 1, 3 - 8, 10, 11 | NO | | |
| | Industrial applicability (IA) | Claims | 1 - 15 | YES | | |
| | | Claims | | МО | | |

2. Citations and explanations (Rule 70.7)

See separate sheet.

Form PCT/IPEA/409 (Box V) (July 1998)